

CECW-EH-Y

DEPARTMENT OF THE ARMY  
U.S. Army Corps of Engineers  
Washington, DC 20314-1000

EM 1110-2-1416

Manual  
No. 1110-2-1416

15 October 1993

**Engineering and Design**  
**RIVER HYDRAULICS**

**1. Purpose.** This manual presents basic principles and technical procedures for analysis of open channel flows in natural river systems.

**2. Applicability.** This guidance applies to HQUSACE elements, major subordinate commands, laboratories, and field operating activities having civil works responsibilities.

**3. General.** Procedures described herein are considered appropriate and usable for planning, analysis and design of projects and features performed by the Corps of Engineers. Basic theory is presented as required to clarify appropriate application and selection of numerical models. This guidance also presents results of previous numerical model applications to river hydraulics and corresponding field observations.

FOR THE COMMANDER:



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